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s ship (s) stem (s) (rnai or sirna or antisense or ribozyme?)
       165859
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***BIOSIS Previews Archive (File 552)

***BIOSIS Previews 1969-2007 (File 525)

***Engineering Index Backfile (File 988)

***Trademarkscan - South Korea (File 655)
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RESUMED UPDATING ***File 141, Reader's Guide Abstracts

RELOADS COMPLETED

***File 5, BIOSIS Previews - archival data added

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Chemical Structure Searching now available in Prous Science Drug Data Report (F452), Prous Science Drugs of the Future (F453), IMS R&D Focus (F445/955), Pharmaprojects (F128/928), Beilstein Facts (F390), Derwent Chemistry Resource (F355) and Index Chemicus (File 302).

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17960421 Biosis No.: 200400331207
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Identification of Flk-1 target genes in vasculogenesis: Pim-1 is required for endothelial and mural cell differentiation in vitro

Author: Zippo Alessio; De Robertis Alessandra; Bardelli Monia; Galvagni Federico; Oliviero Salvatore (Reprint)

Author Address: Dipartimento Biol Mol, Univ Siena, Via Fiorentina 1, I-53100, Siena, Italy **Italy

Author E-mail Address: oliviero@unisi.it

Journal: Blood 103 (12): p 4536-4544 June 15, 2004 2004

Medium: print ISSN: 0006-4971

Document Type: Article Record Type: Abstract Language: English

Abstract: ...and angiogenesis, but its target genes remain elusive. Comparing Flk-1+/+ with Flk-1-/- embryonic stem (ES) cells, we identified transcripts regulated by the vascular endothelial growth factor A (VEGF-A analysis of a number of these genes (Nm23-M1, Nm23-W, Slug, Set, pp32, Cbp, Ship-1, Btk, and Pim-1) showed . that their products were transiently up-regulated in vivo... ... VEGF-A in human umbilical cord vein endothelial cells (HUVECs). Functional analysis by RNA interference (RNAi) in ES cells induced to differentiate demonstrated that Pim-1 is required for their differentiation into ECs and smooth muscle cells (SMCs). In HUVECs, RNAi showed that Pim-1 is required in ECs for VEGF-A-dependent proliferation and migration...

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0411148 DBA Accession No.: 2006-24644 PATENT

Increasing the yield of stem cells in a patient for autologous transplantation comprises administering to the patient the or contacting cells with SH2-domain-containing Inositol 5-Phosphatase inhibitor stem cell yield increase using SH2-domain-containing inositol-5-phosphatase-inhibitor treatment for autologous transplantation and gene therapy

Author: DESPONTS C; WAHLE J; NINOS J; KERR W G

Patent Assignee: UNIV SOUTH FLORIDA 2006

Patent Number: US 20060223749 Patent Date: 20061005 WPI Accession No.: 2006-668903 (200669)

Priority Application Number: US 709801 Application Date: 20040528 National Application Number: US 709801 Application Date: 20040528

Language: English

Abstract: DERWENT ABSTRACT: NOVELTY - Increasing the yield of stem cells in a patient, in vivo, for autologous transplantation, comprises administering an amount of SH2-domain-containing Inositol 5-Phosphatase (SHIP) inhibitor to the patient, and harvesting the stem cells from the patient for autologous transplantation; or increasing the yield of stem cells from a patient, ex vivo, for autologous transplantation, comprises harvesting target stem cells from the patient and contacting the target stem cells with SHIP inhibitor. DETAILED DESCRIPTION -INDEPENDENT CLAIMS are included for: (1) a non-invasive method for harvesting stem cells from blood (2) a non-invasive method of promoting recovery of a stem cell population in a patient; and (3) a method of reducing the population of target cells. BIOTECHNOLOGY - Preferred Method: The SHIP inhibitor is selected from RNA interference compounds, antisense oligonucleotides, ribozymes, DNAzymes, nucleic acid modifiers, PNAs, nonstandard nucleic acids, aptamers, decoys, oligonucleotide based gene regulation, substrate... ...inhibitors, or dominant/negative mutants. The stems cells harvested for transplantation are selected from hematopoietic stem cells, mammary stem cells, mesenchymal, or organ specific stem cells. Harvesting stem cells from blood comprises administering SHIP inhibitor to a volume of blood and harvesting the stem cells from the volume of blood by leukopheresis. The stem cells are non-hematopoietic stem cells. Administration of SHIP inhibitor is conducted for 1-2 weeks. Promoting recovery of a stem cell population in a patient comprises administering SHIP inhibitor to the patient. The patient is recovering from myeloablation therapy. The stem cell population comprises hematopoietic stem cells or non-hematopoietic stem cells. Reducing the population of target cells comprises administering an amount of SHIP inhibitor to a patient. Administration of SHIP inhibitor is used in conjunction with chemotherapy. USE - The methods and SHIP inhibitor are useful for increasing the yield of stem cells in a patient, in vivo, for autologous transplantation, for harvesting stem cells from blood, for promoting recovery of a stem cell population in a patient, and for reducing the population of target cells. ADVANTAGE - The... ... in a wide variety of genetic, oncologic and infectious diseases in the emerging field of stem cell transplantation and eliminates the chance of host rejection as compared to cells produced using...

2/3,K/3 (Item 2 from file: 357) **Links**

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0381442 DBA Accession No.: 2005-27148 PATENT

New isolated polynucleotide comprising an s-ship promoter capable of promoting transcription, useful for useful for promoting transcription in particular cell types and at particular times during development vector-mediated s-ship promoter gene transfer and expression in host cell or trangenic animal for cell type-specific transcription promotion and gene therapy

Author: ROHRSCHNEIDER L R

Patent Assignee: HUTCHINSON CANCER RES CENT FRED 2005

Patent Number: WO 200590559 Patent Date: 20050929 WPI Accession No.: 2005-649602 (200566)

Priority Application Number: US 554318 Application Date: 20040318

National Application Number: WO 2005US8977 Application Date: 20050318

Language: English

Abstract: DERWENT ABSTRACT: NOVELTY - An isolated polynucleotide comprising an s- ship promoter capable of promoting transcription operably connected to a heterologous nucleic acid sequence from an s-ship gene and under the control of a developmental decision promoter, and a marker sequence, where the s-ship gene is disrupted by the marker sequence, is new. DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for: (1) an expression cassette comprising an s-ship promoter operably connected to a heterologous nucleic acid segment; (2) a vector comprising an s-ship promoter; (3) a host cell comprising an s-ship promoter operably attached to a heterologous nucleic acid segment; (4) a recombinant host cell in which one or both s-ship genes is disrupted by marker sequence; (5) a transgenic animal comprising an s-ship promoter region operably attached to a heterologous nucleic acid segment; (6) a mammal having cells comprising an s-ship transgenic sequence; (7) a method for expressing a recombinant nucleic acid in a stem or progenitor cell; (8) a method of screening for a candidate substance that regulates activity of the s-ship1 promoter; (9) a method for identifying stem cells in a population of cells; (10) a method for screening for a modulator of... ...related disease or condition; and (12) a method for expressing a nucleic acid in a stem cell. BIOTECHNOLOGY - Preferred Polynucleotide: The promoter comprises at least 20-5000 contiguous nucleotides from 5......Preferably, the promoter is capable of promoting tissue-specific transcription. The promoter is an s-ship promoter, constitutive, or is inducible or conditional. The promoter is capable of providing expression in embryonic stem cells or in adult stem cells, where the adult stem cells are differentiated but not terminally differentiated. It is also capable of providing expression in adult stem cells that are in growing phase. The promoter is also capable of providing expression in... ...providing expression in a cell that is in a developed animal. The cell is a stem or progenitor cell in the developed animal. The promoter does not constitutively provide expression in the stem or progenitor cell in the developed animal. The developmental decision promoter comprises an s-ship promoter region. Preferred Expression Cassette: In the expression cassette, the heterologous nucleic acid encodes a... ...diagnostic gene product is a polypeptide or an RNA molecule. The RNA molecule is a siRNA or miRNA molecule. The nucleic acid segment also encodes a therapeutic gene product selected from... ...growth factor, or a growth factor receptor. Preferred Vector: In the vector above, the s-ship promoter is operably attached to a nucleic acid segment, where the nucleic acid segment is... ...cell, including a blastocyst cell. The host cell is also a hematopoietic cell or a stem or progenitor cell. The stem or progenitor cell is from tissue selected from skin, a hair follicle, cornea, embryo, gonads... ...muscle. Preferred Animal: The transgenic animal is a mammal. In the mammal above, the s-ship transgenic sequence comprises an s-ship1 coding sequence flanked by loxP sequences. The mammal further... ... of an inducible or conditional promoter. Preferred Method: Expressing a recombinant nucleic acid in a stem or progenitor cell comprises transfecting the cell with an expression cassette comprising an s-ship promoter operably attached to the recombinant nucleic acid, where the nucleic acid is transcribed. Screening... ... activity of the s-ship1 promoter comprises: (A) contacting a nucleic acid

comprising an s-ship promoter with an s-ship promoter binding protein and the candidate substance under conditions that allow binding between the protein... ...and the promoter; and (B) contacting the candidate substance with a cell comprising the s-ship promoter operably attached to a reporter gene coding for an expression product and assaying for expression of the reporter gene expression product. Identifying stem cells in a population of cells comprises administering to cells in the population a nucleic acid comprising an s-ship promoter operably attached to a reporter gene. The cells are in an organ. The cells... ...of the reporter gene. Screening for a modulator of cell function comprises: (A) transfecting a stem or hematopoietic cell with an expression cassette comprising an s-ship promoter operably attached to a nucleic acid encoding a candidate modulator; and (B) assaying the... ...related disease or condition comprises transfecting a cell with an expression cassette comprising an s-ship promoter region operably attached to a therapeutic nucleic acid, and administering the cell to theAlternatively, the blood-related condition is anemia. The blood-related condition can be treated with stem cell replacement therapy. Expressing a nucleic acid in a stem cell comprises providing to a cell a polynucleotide including the nucleic acid under the control... ...times during development. The nucleic acid molecules, host cells, and transgenic organisms having an s-ship promoter, and methods of using the promoter are useful for transcription, expression studies, stem cell analyses, and therapeutic applications. They are useful for treating blood-related disease or condition...

2/3, K/4 (Item 3 from file: 357) Links

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Suppressing or preventing rejection of transplant in patient, or treating or preventing graft-versus-host disease in patient comprises administration of a substance that inhibits SH2-containing inositol polyphosphatase function vector mediated gene transfer and expression in host cell for transplantation therapy, drug screening and gene therapy

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Patent Assignee: UNIV SOUTH FLORIDA 2002

Patent Number: WO 200224233 Patent Date: 20020328 WPI Accession No.: 2002-435045 (200246)

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National Application Number: WO 2001US29158 Application Date: 20010919

Language: English

Abstract: ...transplant, by administering to the patient, a substance (I) that inhibits SH2-containing inositol polyphosphatase (SHIP) function. DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following: (1) a therapeutic composition comprising a substance that inhibits SHIP function in a carrier; (2) screening (M1) a substance suspected of inhibiting SHIP function involves providing a cell line that comprises an indicator of SHIP function; contacting the cell line with the substance; and measuring the response of the indicator to the substance, where the effectiveness of the substance as an inhibitor of SHIP function is assessed from the response to the indicator; (3) screening a candidate genetic construct for inhibiting SHIP function, involves providing an NK cell line that comprises an indicator of SHIP function, contacting the cell line with the genetic construct; and measuring the response of the......to the genetic construct; whereby the effectiveness of the genetic construct as an inhibitor of SHIP function is assessed from the response of the indicator; (4) screening (M2) a substance suspected of inhibiting SHIP function, involves allowing SHIP to react with a SHIP substrate in the presence of the substance, and taking a first measurement of signal that indicates the extent of the SHIP /substrate reaction; allowing SHIP to react with a SHIP substrate in the absence the substance; and taking a second measurement of the same signal that indicates the extent of the SHIP/substrate reaction; and comparing the first and second measurements, whereby a substance that inhibits SHIP function is selected; (5) a mouse cell (II) comprising a SHIPflox allele of a SHIP gene which includes a first exon and a promoter, where at least the first exon... ...mouse (III) comprising (II); (7) a mouse embryo (IV) comprising one or more (II) (embryonic stem cells); and (8) a transgenic mouse (V) derived from (IV). BIOTECHNOLOGY - Preferred Substance: (I) used in the method comprises a genetic construct that directs expression of an antagonist of a SHIP function. Preferably the genetic construct comprises an anti-sense polynucleotide, a polynucleotide that bind to SHIP mRNA, a nucleic acid that hybridizes to a SHIP mRNA, a recombinant retroviral vector, a ribozyme, an RNA aptamer, a peptidomimetic inhibitor of SHIP function, or their combination. Optionally (I) is the small molecule inhibitor of SHIP activity having a molecular weight of less that about 10000. Preferred Methods: In (M1), the... ... a natural killer (NK) cell line, and the response of the indicator (fluorogenic substrate of SHIP) to the substance is measured by flow cytometry or by a multi-well fluorescence detector... ... The substance which is contacted with the cell line is a small molecular inhibitor of SHIP activity, an anti-sense oligonucleotides, a peptidomimetic inhibitor of SHIP function, ribozymes, nucleic acid, polynucleotide, naked DNA, recombinant retroviral vector, RNA aptamer, anti-sense oligonucleotide, or their combination. Most preferably the small molecular inhibitor is a suicide substrate for SHIP. In (M2), SHIP is allowed to react with a SHIP substrate such as Shc, Grb2, the FcRIIB receptor, PIP3, and IP4, or their modification, in the presence of a substance such as small molecule inhibitor of SHIP activity, an oligonucleotide, a peptidomimetic inhibitor of SHIP activity, an oligonucleotide, a peptidomimetic inhibitor of

SHIP function, a ribozymes, a polynucleotide, a polypeptide, an anti- SHIP antibody, or an RNA aptamer. Preferred Cell: (II) (preferably an embryonic stem cell) is homozygous with regard to the SHIPflox allele. Preferred Transgenic Mouse: (III) has a genotype of SHIP. (V) does not express SHIP protein. ACTIVITY - Immunosuppressive. No supporting data provided. MECHANISM OF ACTION - SHIP function inhibitor; suppressor of natural killer (NK) cell-mediator activities; antisense therapy. A cohort of SHIP-/- mice and their SHIP+/+ littermates were transplanted with whole bone marrow (BM) from BALB/C mice following lethal irradiation... ...cells (Mac-1+/Gr-1+) or T cells (CD3+) in peripheral blood of a representative SHIP-/- BM transplantation survivor. 86% of the SHIP-/- mice survived lethal irradiation without developing GVHD out to 10weeks post-transplant while only 36% survived in the SHIP+/+ cohort. Analysis of the survival differences between the two cohorts using the Kaplan-Meier log-rank test confirmed that survival of SHIP-/- mice was dramatically enhanced relative to their SHIP+/+ littermates (p=0.007). Nine of fourteen SHIP+/+ mice died during the 10 week post-transplant period and prior to death exhibited one...

2/3,K/5 (Item 1 from file: 399) Links

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Inhibition of SHIP to enhance stem cell harvest and transplantation

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